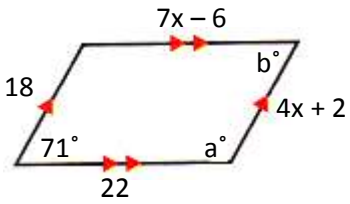
Geometry SHOW WORK Name_____

6-2 worksheet

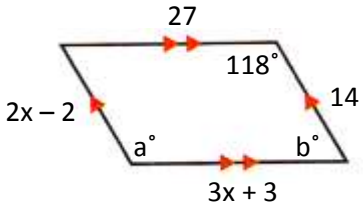
Find the value of each variable in each parallelogram.

1.



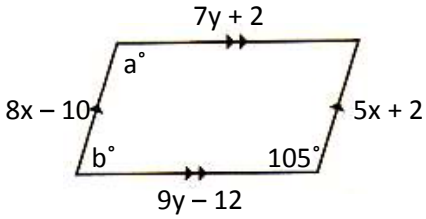
a = _____ b = _____ x = _____

2.



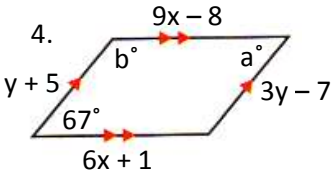
a = _____ b = _____ x = _____

3.



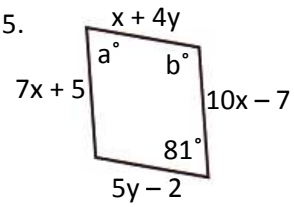
a = _____ b = _____ x = _____ y = _____

4.



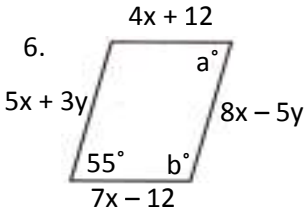
a = _____b = _____x = _____y = _____

5.



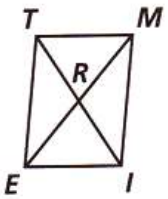
a = _____b = _____x = _____y = _____

6.



a = _____b = _____x = _____y = _____

7.

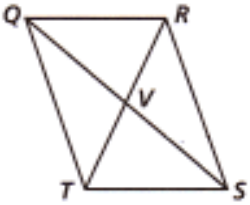


$\overline{TR} = x + 2$ $\overline{RI} = 2x$

$\overline{ER} = 10$ $\overline{RM} = y + 4$

x = _____ y = _____

8.

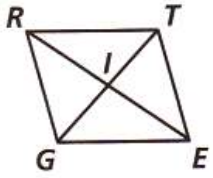


$\overline{QV} = 4x$ $\overline{SV} = 3x + 12$

$\overline{TV} = 30$ $\overline{RV} = y + 3$

x = _____ y = _____

9.

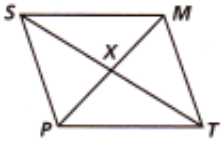


$\overline{RI} = 2x$ $\overline{EI} = x + 3$

$\overline{GI} = y + 2$ $\overline{TI} = 7$

x = _____ y = _____

10.



$\overline{SX} = 3y - 7$ $\overline{TX} = 11$

$\overline{PX} = x + 1$ $\overline{MX} = 9$

x = _____ y = _____